Online Examinations (Even Sem/Part-I/Part-II Examinations 2020 - 2021

Course Name - –Electrical Technology
Course Code - DCSE206

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8.　*

Mark only one oval.

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Answer all the questions. Each question carry one mark.

9.   1. In a series R-L circuit, VL___VR by ___ degrees. *

Mark only one oval.

○ lags,45

○ lags,90

○ leads,90

○ leads,45

10.　2. Fleming's left hand rule may be applied to *

Mark only one oval.

- Motor
- Generator
- Transformer
- All of the above

11.　3. The generating voltage and frequency in India is about? *

Mark only one oval.

- 11 kV and 60 Hz
- 11 kV and 50 Hz
- 220 kV and 60 Hz
- 220 kV and 50 Hz

12.　4. The emf induced in the dc generator armature winding is *

Mark only one oval.

- AC
- DC
- AC and DC
- None of the above

13.   5. How many coulombs of charge flow through a circuit carrying a current of 10 A
       in 1 minute? *

       Mark only one oval.

       ◯ 10
       ◯ 60
       ◯ 600
       ◯ 1200

14.   6. The resistance of pure metals _____ *

       Mark only one oval.

       ◯ Increases with an increase in temperature
       ◯ Decreases with an increase in temperature
       ◯ Remains the same with an increase in temperature
       ◯ Becomes zero with an increase in temperature

15.   7.Power factor of an inductive circuit is usually improved by connecting capacitor
       to it in *

       Mark only one oval.

       ◯ Parallel
       ◯ Series
       ◯ Either (A) or (B)
       ◯ None of the above

16. 8. Which is not a part of DC machine *

Mark only one oval.

○ Yoke

○ Commutator

○ Armature

○ Breather

17. 9. In DC generators brushes are used for *

Mark only one oval.

○ collecting of voltage

○ collecting of current without any sparkings

○ reduce eddy current loss

○ convert ac armature current in to dc

18. 10. Substances which have permeability less than the permeability of free space are known as *

Mark only one oval.

○ ferromagnetic

○ paramagnetic

○ diamagnetic

○ bipolar

19.   11. Which of the following is not an expression power? *

Mark only one oval.

⬭ P=VI

⬭ P=I.I.R

⬭ P=V.V/R

⬭ P=I/R

20.   12. The time constant of a series R-C circuit is given by *

Mark only one oval.

⬭ R/C

⬭ RC2

⬭ RC

⬭ R2C

21.   13. The unit of magnetic flux is *

Mark only one oval.

⬭ Henry

⬭ weber

⬭ ampereturn/weber

⬭ ampere/metre

22.   14. Full form of MCB *

Mark only one oval.

    ◯ Miniature Circuit Breaker

    ◯ Mini Circuit Breaker

    ◯ Minimum Current Breaker

    ◯ Maximum Current Breaker

23.   15. In a given transformer for a given applied voltage, which losses remain constant irrespective of load changes? *

Mark only one oval.

    ◯ Friction and windage losses

    ◯ Hysteresis and eddy current losses

    ◯ Copper losses

    ◯ Cannot be determined

24.   16. Unit of resistance is *

Mark only one oval.

    ◯ Mho

    ◯ Ohm

    ◯ Farad

    ◯ Henry

25.   17. Alternating current measured in a transmission line will be *

Mark only one oval.

⬭ Peak value

⬭ Average value

⬭ RMS value

⬭ Zero

26.   18. Which of the following is not a unit of flux? *

Mark only one oval.

⬭ Maxwell

⬭ Telsa

⬭ Weber

⬭ All of the above

27.   19. What is the main reason for using the high voltage for the long distance power transmission? *

Mark only one oval.

⬭ Reduction in the time of transmission

⬭ Reduction in the transmission losses

⬭ Increase in system reliability

⬭ None of these

28. 20. The armature of DC motor is laminated to _____ *

Mark only one oval.

◯ To reduce mass

◯ To reduce hysteresis loss

◯ To reduce eddy current loss

◯ To reduce inductance

29. 21.Quality factor-Q of a resonant circuit signifies: *

Mark only one oval.

◯ Loss in the resonant circuit

◯ Gain in the resonant circuit

◯ Magnetic energy stored in the circuit

◯ Electric energy stored in the circuit

30. 22.Permanent magnet are manufactured by *

Mark only one oval.

◯ Copper sulphate

◯ Iron and cobalt

◯ Cobalt and nickel

◯ ALNICO

31.   23. Miniature circuit breaker is a small *

Mark only one oval.

⬭ fuse

⬭ magnetic switch

⬭ electromagnetic switch

⬭ two way switch

32.   24. For an ideal DC machine, which phenomenon will reduce the terminal voltage?
*

Mark only one oval.

⬭ Armature reaction

⬭ Commutation

⬭ Armature ohmic losses

⬭ All will contribute in reducing the terminal voltage

33.   25. In case of Short Circuit,_____Current will flow in the Circuit. *

Mark only one oval.

⬭ Zero

⬭ Very Low

⬭ Normal

⬭ Infinite

34. 26. The voltage applied across an R-L circuit is equal to ___ of VR and VL . *

Mark only one oval.

- ⬭ arithmetic sum
- ⬭ algebraic sum
- ⬭ phasor sum
- ⬭ sum of the squares

35. 27. What is the unit of magnetic flux density *

Mark only one oval.

- ⬭ Weber
- ⬭ Tesla
- ⬭ Weber/m
- ⬭ Weber-1

36. 28. The fuse blows off by *

Mark only one oval.

- ⬭ burning
- ⬭ arcing
- ⬭ melting
- ⬭ none of the above

37.   29. The generating action and motoring action in d.c. machine is determined by *

Mark only one oval.

◯ Fleming's left hand rule, Fleming's right hand rule

◯ Fleming's right hand rule, Fleming's left hand rule

◯ Both by Fleming's left hand rule

◯ Both by Fleming's right hand rule

38.   30. Star connection is also known as_____ *

Mark only one oval.

◯ Y-connection

◯ Mesh connection

◯ Either Y-connection or mesh connection

◯ Neither Y-connection nor mesh connection

39.   31. Which of the following statements are true about insulators? *

Mark only one oval.

◯ Insulators have a positive temperature coefficient

◯ Insulators have a negative temperature coefficient

◯ Insulators have zero temperature coefficient

◯ Insulators have infinite temperature coefficient

40.   32. Power factor of electric bulb is *

Mark only one oval.

◯ Zero

◯ Lagging

◯ Leading

◯ Unity

41.   33. A transformer transforms _____ *

Mark only one oval.

◯ voltage

◯ current

◯ power

◯ frequency

42.   34. A DC generator without commutator is a *

Mark only one oval.

◯ AC generator

◯ DC motor

◯ DC generator

◯ induction motor

43.   35. KVL can be applied at *

Mark only one oval.

◯ Loop

◯ Node

◯ Both loop and node

◯ Neither loop nor node

44.   36. Kilowatt-hour(kWh) is a unit of? *

Mark only one oval.

◯ Current

◯ Power is proportional to current only

◯ Energy

◯ Resistance

45.   37. A heater is rated as 230 V, 10 kW, A.C. The value 230 V refers to *

Mark only one oval.

◯ Average voltage

◯ r.m.s. voltage

◯ Peak voltage

◯ None of the above

46. 38. The unit of retentivity is *

Mark only one oval.

⬭ weber

⬭ weber/sq. m

⬭ ampere turn/metre

⬭ ampere turn

47. 39. DC machine is a *

Mark only one oval.

⬭ conduction machine

⬭ convection machine

⬭ both are correct

⬭ none of above are correct

48. 40. Turns ratio of the transformer is directly proportional to _____ *

Mark only one oval.

⬭ Resistance ratio

⬭ Frequency ratio

⬭ Voltage ratio

⬭ Not proportional to any terms

49.   41. One volt is the same as *

Mark only one oval.

◯ one joule/coulomb

◯ one coulomb/joule

◯ one coulomb

◯ one joule

50.   42. The frequency of an alternating current is *

Mark only one oval.

◯ The speed with which the alternator runs

◯ The number of waves passing through a point in one second

◯ The number of cycles generated in one minute

◯ The number of electrons passing through a point in one second

51.   43. Susceptibility is positive for *

Mark only one oval.

◯ non-magnetic substances

◯ diamagnetic substances

◯ ferromagnetic substances

◯ none of the above

52.   44. The most suitable practical value of primary distribution is? *

Mark only one oval.

⬭ 66 kV

⬭ 6.6 kV

⬭ 230 V/ 400 V

⬭ 22 kV

53.   45. The transformer ratings are usually expressed in....... *

Mark only one oval.

⬭ Volts

⬭ Amperes

⬭ Kw

⬭ KVA

54.   46. The power factor of a D.C. circuit is always *

Mark only one oval.

⬭ Less than unity

⬭ Unity

⬭ Greater than unity

⬭ Zero

55.   47. Air gap has_____reluctance as compared to iron or steel path *

Mark only one oval.

( ) little

( ) lower

( ) higher

( ) zero

56.   48. Single line diagram does not represents: *

Mark only one oval.

( ) Ratings of machines

( ) Delta connection of transformer winding

( ) Neutral wire of transmission lines

( ) Star connection of transformer winding

57.   49. Emf and torque produced in a DC machine are proportional to _____ and _____ respectively. *

Mark only one oval.

( ) Armature speed and armature emf

( ) Armature emf and armature speed

( ) Armature current and armature emf

( ) Armature speed and armature current

58.   50. The resistance of insulators _____ *

Mark only one oval.

( ) Increases with an increase in temperature

( ) Remains the same with an increase in temperature

( ) Decreases with an increase in temperature

( ) Becomes zero with an increase in temperature

59.   51. Which, among the following is the correct expression for impedance? *

Mark only one oval.

( ) Z= Y

( ) Z=1/Y

( ) Z= Y2

( ) Z=1/Y2

60.   52. Identify which of the following is the unit of magnetic flux density? *

Mark only one oval.

( ) Weber

( ) Weber/m

( ) Tesla

( ) Weber-1

61.   53. A fuse is connected *

Mark only one oval.

( ) in series with circuit

( ) in parallel with circuit

( ) either in series or in parallel with circuit

( ) none of the above

62.   54. When the motor runs on no load, then *

Mark only one oval.

( ) Back emf is almost equal to applied voltage

( ) Back emf will be greater than applied voltage

( ) Back emf will be less than applied voltage

( ) None of these

63.   55. Delta connection is also known as_____ *

Mark only one oval.

( ) Y-connection

( ) Mesh connection

( ) Either Y-connection or mesh connection

( ) Neither Y-connection nor mesh connection

64.   56. In a series circuit, which of the parameters remain constant across all circuit
       elements? *

       Mark only one oval.

       ⬭ Voltage

       ⬭ Current

       ⬭ Both voltage and current

       ⬭ Neither voltage nor current

65.   57. Ohm is unit of all of the following except *

       Mark only one oval.

       ⬭ Inductive reactance

       ⬭ Capacitive reactance

       ⬭ Resistance

       ⬭ Capacitance

66.   58. Unit for quantity of electricity is *

       Mark only one oval.

       ⬭ ampere-hour

       ⬭ watt

       ⬭ joule

       ⬭ coulomb

67.   59. Commutator in DC generator is used for *

Mark only one oval.

◯ collecting of current

◯ reduce losses

◯ increase efficiency

◯ convert AC armature current in to DC

68.   60. KCL can be applied at *

Mark only one oval.

◯ Loop

◯ Node

◯ Both loop and node

◯ Neither loop nor node

69.   61. If 1 A current flows in a circuit, the number of electrons flowing through this circuit is

Mark only one oval.

◯ 0.625×10^{19}

◯ 1.6×10^{19}

◯ 1.6×10^{-19}

◯ 0.625×10^{-19}

70. 62. Which, among the following is a unit for resistivity?

Mark only one oval.

○ ohm/metre

○ ohm/metre^2

○ ohm-metre

○ ohm-metre^2

71. 63. A battery converts_____

Mark only one oval.

○ Electrical energy to chemical energy

○ Mechanical energy to electrical energy

○ Chemical energy to electrical energy

○ Chemical energy to mechanical energy

72. 64. What is the unit of admittance?

Mark only one oval.

○ ohm

○ henry

○ farad

○ ohm^-1

73.　　65. Pure inductive circuit

Mark only one oval.

◯ Consumes some power on average

◯ Takes power from the line during some part of the cycle and then returns back to it during other part of the cycle

◯ Does not take power at all from a line

◯ None of the above

74.　　66. In a pure inductive circuit if the supply frequency is reduced to 1/2, the current will

Mark only one oval.

◯ Be reduced by half

◯ Be doubled

◯ Be four times as high

◯ Be reduced to one fourth

75.　　67. The r.m.s. value of a sinusoidal A.C. current is equal to its value at an angle of _____ degrees

Mark only one oval.

◯ 90

◯ 60

◯ 45

◯ 30

76.   68. If two conductors carrying currents in opposite direction are placed parallel to each other then the magnetic field set up by the conductors

Mark only one oval.

⬭ Attract each other

⬭ Repels each other

⬭ Perpendicular to each other

⬭ Parallel to each other

77.   69. Fleming's left hand rule is used to find

Mark only one oval.

⬭ direction of magnetic field due to current carrying conductor

⬭ direction of force on a current carrying conductor in a magnetic field

⬭ direction of flux in a solenoid

⬭ polarity of a magnetic pole

78.   70. The uniform magnetic field is

Mark only one oval.

⬭ the field of a set of parallel conductors

⬭ the field in which all lines of magnetic flux are parallel and equidistant

⬭ the field of a single conductor

⬭ none of the above

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